

M 6.3, 179 km SW of Lorengau, Papua New Guinea

Origin Time: 2022-05-09 22:33:06 UTC (Tue 08:33:06 local)

Location: 3.3689° S 146.3470° E Depth: 10.0 km

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

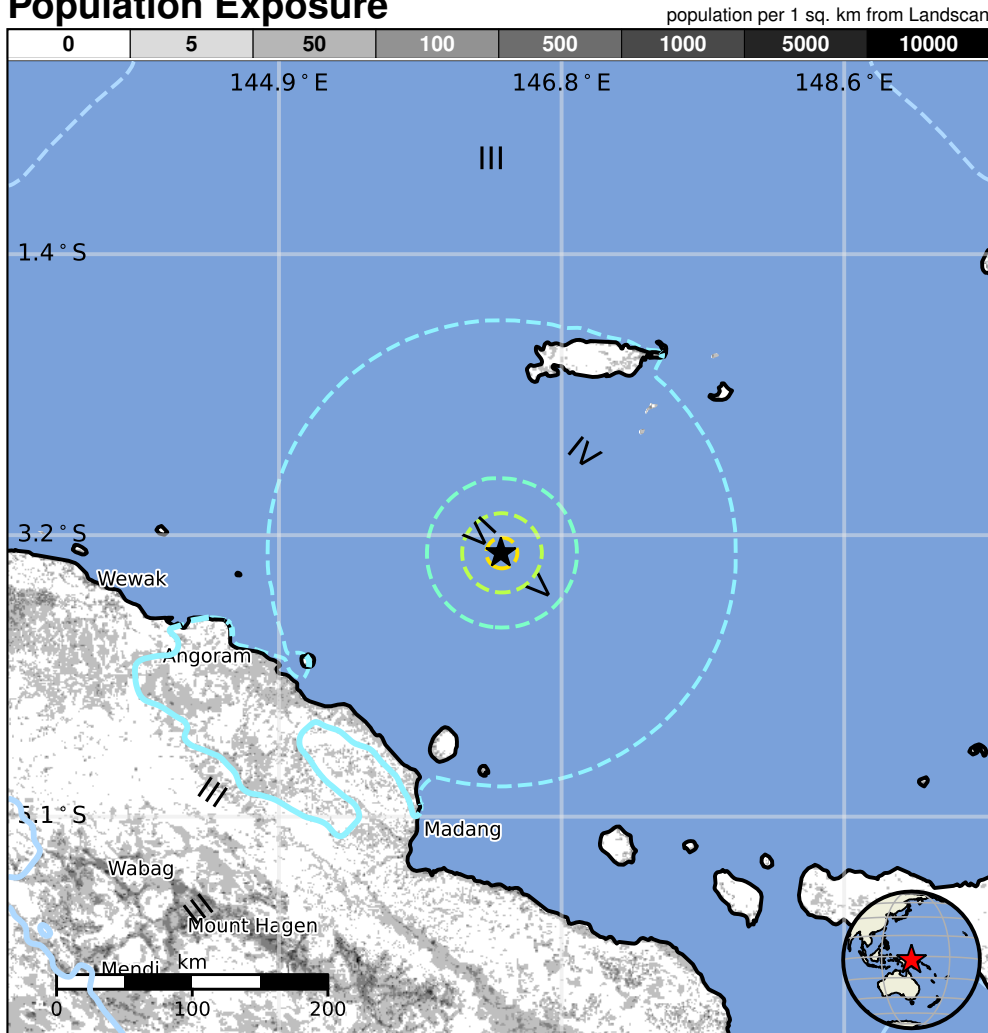


Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | —* | 3,454k* | 358k | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------------------|----------|---------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 2005-06-04 | 334 | 6.1 | VII(27k) | 1 |
| 1993-10-16 | 278 | 6.3 | VII(75k) | 3 |
| 2002-09-08 | 378 | 7.6 | IX(17k) | 4 |

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|-----|-------------|------------|
| IV | Lorengau | 6k |
| III | Angoram | 2k |
| III | Madang | 27k |
| III | Kainantu | 9k |
| III | Rauna | <1k |
| III | Goroka | 19k |
| III | Wewak | 18k |
| III | Kundiawa | 9k |
| III | Mount Hagen | 34k |
| III | Wabag | 4k |
| II | Mendi | 26k |

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000h87i#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000h87i